### ADMIN CONSOLE $\rightarrow$ LOGIN WITH SSO $\rightarrow$

# OneLogin SAML Implementation

View in the help center: https://bitwarden.com/help/saml-onelogin/

### **OneLogin SAML Implementation**

This article contains **OneLogin-specific** help for configuring login with SSO via SAML 2.0. For help configuring login with SSO for another IdP, refer to SAML 2.0 Configuration.

Configuration involves working simultaneously within the Bitwarden web app and the OneLogin Portal. As you proceed, we recommend having both readily available and completing steps in the order they are documented.

### **⊘** Tip

Already an SSO expert? Skip the instructions in this article and download screenshots of sample configurations to compare against your own.

Jownload Sample ↓

### Open SSO in the web app

Log in to the Bitwarden web app and open the Admin Console using the product switcher:

D Password Manager	All vaults			New 🗸	BW
🗇 Vaults	FILTERS 🕜		Name	Owner	:
🖉 Send			Name	Owner	:
$\ll$ Tools $\sim$	Q Search vau	ASIV	Company Credit Card Visa, *4242	My Organiz	÷
<b>≅ Reports</b>	✓ All vaults		Personal Legin		
Settings	A My vault	0 9	Personal Login myusername	Me	:
	<ul> <li>Feams Org :</li> <li>+ New organization</li> </ul>		Secure Note	Ме	:
	<ul> <li>✓ All items</li> <li>☆ Favorites</li> <li>⑦ Login</li> <li>□ Card</li> <li>Identity</li> <li>□ Secure note</li> </ul>		Shared Login sharedusername	My Organiz	:
🕆 Password Manager	<ul> <li>✓ Folders</li> <li>➡ No folder</li> </ul>				
Secrets Manager	Collections				
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🖉 Admin Console	🔟 Trash				
🍈 Toggle Width					
		Duralization	and the later of		

Product switcher

Open your organization's **Settings** → **Single sign-on** screen:

#### Secure and trusted open source password manager for business

<b>D bit</b> warden	Single sign-on 🖩 🔲
${\ensuremath{\mathbb B}}$ My Organization $$	Use the require single sign-on authentication policy to require all members to log in with SSO.
	✓ Allow SSO authentication
A Members	Once set up, your configuration will be saved and members will be able to authenticate using their Identity Provider credentials.
뿅 Groups	SSO identifier (required) unique-organization-identifier
$ equal  ext{Reporting}  \lor $	Provide this ID to your members to login with SSO. To bypass this step, set up <b>Domain verification</b>
$\mathbb{B}$ Billing $\checkmark$	Member decryption options
$\otimes$ Settings $\land$	Master password
Organization info	Trusted devices Once authenticated, members will decrypt vault data using a key stored on their device. The single organization policy, SSO required policy, and account recovery administration policy with automatic enrollment will turn on when this option is used.
Policies	
Two-step login	Type
Import data	SAML 2.0
Export vault	
Domain verification	SAML service provider configuration
Single sign-on	Set a unique SP entity ID
Device approvals	Generate an identifier that is unique to your organization
SCIM provisioning	
	SAML 2.0 metadata URL

SAML 2.0 configuration

If you haven't already, create a unique **SSO identifier** for your organization and select **SAML** from the the **Type** dropdown. Keep this screen open for easy reference.

You can turn off the **Set a unique SP entity ID** option at this stage if you wish. Doing so will remove your organization ID from your SP entity ID value, however in almost all cases it is recommended to leave this option on.

#### **♀** Tip

There are alternative **Member decryption options**. Learn how to get started using SSO with trusted devices or Key Connector.

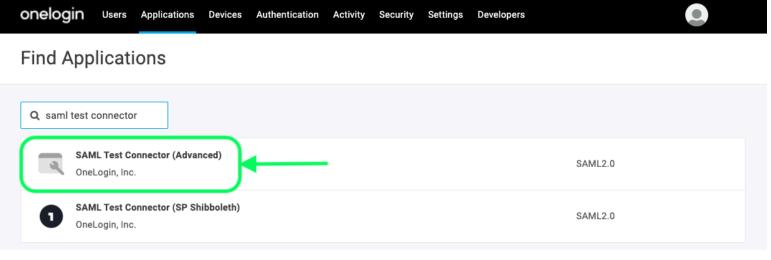
### Create a OneLogin app

In the OneLogin Portal, navigate to the the **Applications** screen and select the **Add App** button:

onelogin	Users	Applications	Devices	Authentication	Activity	Security	Settings	Developers	
Applicat	ions								Add App
Q search co	mpany a	ops							
No company	y apps hav	ve been added.							

Add an Application

#### In the search bar, type saml test connector and select the SAML Test Connector (Advanced) app:



SAML Test Connector App

Give your application a Bitwarden-specific **Display Name** and select the **Save** button.

### Configuration

Select **Configuration** from the left-hand navigation and configure the following information, some of which you will need to retrieve from the Single Sign-On screen:

onelogin Users	Applications	Devices	Authentication	Activity	Security	Settings	Developers	
Applications / SAML Test Con	nector (Adv	anced)	)			M	ore Actions 👻	Save
Info	<u> </u>	<b>Applic</b> RelaySta	ation details					
Configuration		RelaySta	le					
Parameters Rules		Audience	e (EntityID)					
SSO								
Access		Recipien	t					
			App Confi	guration				
Application Setting	Description							
Audience (EntityID)	This automa	tically-ge	e-generated <b>SP</b> nerated value ca ased on your set	an be copi	ed from th	e organiza	tion's <b>Settings</b> →	Single sign-on
Recipient	Set this field	to the sai	ne pre-generate	ed <b>SP Enti</b>	ty ID used	for the <b>Au</b>	dience (Entity ID)	setting.
ACS (Consumer) URL Validator		-	<b>Required</b> by On Bitwarden. Skip 1				l to enter informa e <b>r) URL</b> .	tion into this
ACS (Consumer) URL	This automa	tically-ge	e-generated <b>Ass</b> nerated value ca ased on your set	an be copi			<b>S) URL</b> . tion's <b>Settings</b> →	Single sign-on
SAML initiator	Select <b>Servi</b>	ce Provide	er. Login with SSC	) does no	currently	support Id	P-initiated SAML	assertions.

Application Setting	Description
SAML nameID Format	Set this field to the SAML NameID Format you want to use for SAML assertions.
SAML signature element	By default, OneLogin will sign the SAML Response. You can set this to <b>Assertion</b> or <b>Both</b>

Select the **Save** button to finish your configuration settings.

#### **Parameters**

Select **Parameters** from the left-hand navigation and use the + **Add** icon to create the following custom parameters:

Field Name	Value
email	Email
firstname	First Name
lastname	Last Name

Select the **Save** button to finish your custom parameters.

#### SSO

Select **SSO** from the left-hand navigation and complete the following:

1. Select the View Details link under your X.509 Certificate:

Enable SAML2.0	
Sign on method	
SAML2.0	
X.509 Certificate	
Standard Strength Certificate (2048-bit)	
Change View Details	
SAML Signature Algorithm	
SHA-256 🗸	
Issuer URL	
	6
SAML 2.0 Endpoint (HTTP)	
https://mmccabe.onelogin.com/trust/saml2/http-post/sso/95eef6e7-560f-4531-9df3-02e7248415a8	ß

View your Cert

On the Certificate screen, download or copy your X.509 PEM Certificate, as you will need to use it later. Once copied, return to the main SSO screen.

#### 2. Set your SAML Signature Algorithm.

3. Take note of your Issuer URL and SAML 2.0 Endpoint (HTTP). You will need to use these values shortly.

#### Access

Select Access from the left-hand navigation. In the **Roles** section, assign application access to all the roles you would like to be able to use Bitwarden. Most implementations create a Bitwarden-specific role and instead opt to assign based on a catch-all (for example, **Default**) or based on pre-existing roles.

Privileges		
Setup	Roles	
	Bitwarden SSO Users 🗸	Default
	Role Assignment	

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### Back to the web app

At this point, you have configured everything you need within the context of the OneLogin Portal. Return to the Bitwarden web app to complete configuration.

The Single sign-on screen separates configuration into two sections:

- SAML service provider configuration will determine the format of SAML requests.
- SAML identity provider configuration will determine the format to expect for SAML responses.

#### Service provider configuration

Configure the following fields according to the choices selected in the OneLogin Portal during app creation:

Field	Description
Name ID Format	Set this field to whatever you selected for the OneLogin <b>SAML nameID Format</b> field during app configuration.
Outbound Signing Algorithm	Algorithm used to sign SAML requests, by default sha-256.
Signing Behavior	Whether/when SAML requests will be signed. By default, OneLogin will not require requests to be signed.
Minimum Incoming Signing Algorithm	Set this field to whatever you selected for the SAML Signature Algorithm during app configuration
Want Assertions Signed	Check this box if you set the <b>SAML signature element</b> in OneLogin to <b>Assertion</b> or <b>Both</b> during app configuration.
Validate Certificates	Check this box when using trusted and valid certificates from your IdP through a trusted CA. Self- signed certificates may fail unless proper trust chains are configured within the Bitwarden login with SSO docker image.

When you are done with the service provider configuration, Save your work.

#### Identity provider configuration

Identity provider configuration will often require you to refer back to the OneLogin Portal to retrieve application values:

Field	Description
Entity ID	Enter your OneLogin <b>Issuer URL</b> , which can be retrieved from the OneLogin app SSO screen. This field is case sensitive.
Binding Type	Set to <b>HTTP Post</b> (as indicated in the SAML 2.0 Endpoint (HTTP)).
Single Sign On Service URL	Enter your OneLogin <b>SAML 2.0 Endpoint (HTTP)</b> , which can be retrieved from the OneLogin app SSO screen.
Single Log Out Service URL	Login with SSO currently <b>does not</b> support SLO. This option is planned for future development, however you may pre-configure it if you wish.
X509 Public Certificate	Paste the retrieved X.509 Certificate, removingBEGIN CERTIFICATE andEND CERTIFICATE The certificate value is case sensitive, extra spaces, carriage returns, and other extraneous characters will cause certification validation to fail.
Outbound Signing Algorithm	Select the SAML Signature Algorithm selected in the OneLogin SSO configuration section.
Disable Outbound Logout Requests	Login with SSO currently <b>does not</b> support SLO. This option is planned for future development.
Want Authentication Requests Signed	Whether OneLogin expects SAML requests to be signed.

#### (i) Note

When completing the X509 certificate, take note of the expiration date. Certificates will have to be renewed in order to prevent any disruptions in service to SSO end users. If a certificate has expired, Admin and Owner accounts will always be able to log in with email address and master password.

When you are done with the identity provider configuration, **Save** your work.

### **⊘** Tip

You can require users to log in with SSO by activating the single sign-on authentication policy. Please note, this will require activating the single organization policy as well. Learn more.

### Test the configuration

Once your configuration is complete, test it by navigating to https://vault.bitwarden.com, entering your email address and selecting the Use single sign-on button:

	Log in to Bitwarden	
(and the second	ddress (required)	
	Continue	
	or	
$\bigcirc$	🐣 Log in with passkey	$\supset \mid$
	🖻 Use single sign-on	Ď

Log in options screen

Enter the configured organization identifier and select **Log In**. If your implementation is successfully configured, you will be redirected to the OneLogin login screen:

	onelogin	
<∘> Conne	ecting to <b>Bitwarden SSO</b>	
Username		
Remen	nber my username	
	Continue	
	Forgot Password	

OneLogin Login

After you authenticate with your OneLogin credentials, enter your Bitwarden master password to decrypt your vault!

### (i) Note

Bitwarden does not support unsolicited responses, so initiating login from your IdP will result in an error. The SSO login flow must be initiated from Bitwarden.